



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit – Unknown

In re

Patent Application of

Said A. Goueli

Serial No.: 10/647,711

Filed: August 25, 2003

Confirmation No.: 5274

Examiner: Unknown

"ALKYL PEPTIDE AMIDES AND
APPLICATIONS"

CERTIFICATION UNDER 37 CFR 1.08

I, Leslie Rector, hereby certify that this correspondence is being deposited with the United States Postal Service, First class, in an envelope, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Leslie Rector
Signature

December 18, 2003
Date

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

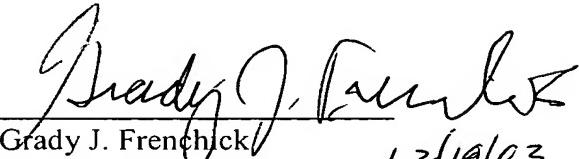
The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and/or PTO/SB/08B. Copies of all the references, with the exception of references labeled as "AH" and "DT" are not being provided herewith because, pursuant to 37 C.F.R. §1.98(d), copies were previously submitted to, or cited by, the Office in related applications, U.S. Serial No. 09/630,115, filed August 1, 2000, issued as U.S. Patent No. 6,610,657, and 09/308,507, filed 5/19/1999, now abandoned.

References labeled "AH" i.e., WO 96/16172, and "DT" i.e., Zaliani, *Drug Design & Discovery*, 13:63-74 (1996) were cited in a recently received European Examiner's Action in related/corresponding European patent application No. 97948498.7. Copies of these references are enclosed herein.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,



Grady J. Frenchick
Reg. No. 29,018
12/19/03

File No. 016026-9178 2d DIV
Michael Best & Friedrich LLP
One South Pinckney Street
P.O. Box 1806
Madison, WI 53701-1806
(608) 257-3501

Q:\client\016026\9178\B0242448.1

Substitute of form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>O I P E JCS DEC 22 2003 use as many sheets as necessary</i>				Application Number	10/647,711
				Filing Date	August 25, 2003
				First Name Inventor	Said Goueli
				Group Art Unit	1646
				Examiner Name	
				Attorney Docket Number	016026-9178 DIV
Sheet	1	of	1		

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	AA	5,358,934	BOROVSKY et al.	10/25/1994
	AB	5,453,354	AKERLOF et al.	9/26/1995
	AC	5,744,354	LOCKERBIE et al.	28 Apr 1998
	AD	6,011,013	CARR et al.	1/4/2000
	AE	6,011,015	VINSON et al.	1/4/2000

FOREIGN PATENT DOCUMENTS							
Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	AF	WO	98/22122	PROMEGA CORP.	28 May 1999		
	AG	EP	511,600 A2	EBASHI	11 Apr 1992		
	AH	WO	96/16172	ICOS CORPORATION	30 May 1996		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 0231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>(use as many sheets as necessary)</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
Sheet 1 of 11	Attorney Docket Number	016026-9178 DIV		

DEC 22 2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	TRADEMARK OFFICE E&G	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
AI	AUSUBEL et al. eds., <u>Current Protocols in Molecular Biology</u> , Greene Pub., and Wiley Interscience, NY (1987) (with periodic updates).	
AJ	BABCOCK, Donner F. et al., "Action of ionophore A23187 at the cellular level," <i>J. Biol. Chem.</i> , 251(13):3881-3886 (Jul. 10 1976).	
AK	BARJA, P. et al., "Inhibition of T cell activation by protein kinase C pseudosubstrates," <i>Cellular Immunology</i> , 153: 28-38 (Jan. 1994).	
AL	BEDFORD, J.M. & HOSKINS, D.D., <u>Marshall's Physiology of Reproduction</u> , Chap. 5 "The mammalian spermatozoon: morphology, biochemistry and physiology," Lamming, ed., 4th Ed., V. 2, p. 379, Churchill Livingstone, NY (1990).	
AM	BOLLAG & EDELSTEIN, Eds., <u>Protein Methods</u> , Wiley-Liss, NY (1991)	
AN	CARR, Daniel W. et al., "Interaction of the regulatory subunit (RII) of cAMP-dependent protein kinase with RII-anchoring proteins occurs through an amphipathic helix binding motif," <i>J. Biol. Chem.</i> , 266(22):14188-14192 (Aug. 5, 1991).	
AO	CARR, Daniel W. et al., "Localization of the cAMP-dependent protein kinase to the postsynaptic densities by A-Kinase Anchoring Proteins," <i>J. Biol. Chem.</i> , 267(24):16816-16823 (Aug. 25, 1992).	
AP	CARR, Daniel W. et al., "Association of the type II cAMP-dependent protein kinase with a human thyroid RII-anchoring protein," <i>J. Biol. Chem.</i> 267(19):13376-13382 (Jul. 5, 1992).	
AQ	CARR, Daniel W. et al., "Follicle-stimulating hormone regulation of A-kinase anchoring proteins in granulosa cells," <i>J. Biol. Chem.</i> 268: 20729-20732 (Oct. 1993).	

Examiner Signature		Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p> <p style="text-align: right;">DEC 2 2003 SHEA JCSS PATENT & TRADEMARK OFFICE</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
2	of	11	Attorney Docket Number	016026-9178 DIV

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.		
	AR	CARR, Daniel W. & ACOTT, Ted S., "The phosphorylation of a putative sperm microtubule-associated protein 2(MAP2) is uniquely sensitive to regulation," <i>Biol. of Reproduc.</i> , 43:795-805 (1990).		
	AS	CARR, Daniel W. & SCOTT, J.D., "Blotting and band-shifting: techniques for studying protein-protein interactions," <i>Trends Biochem. Sci.</i> , 17:246-249 (July 1992).		
	AT	CARRERA, Alfonso et al., "The major fibrous sheath polypeptide of mouse sperm: Structural and functional similarities to the A-kinase anchoring proteins," <i>Dev. Biol.</i> , 165:272-284 (1994).		
	AU	CARRERA, Alfonso et al., "Regulation of Protein Tyrosine Phosphorylation in human sperm by a calcium/calmodulin-dependent mechanism: Identification of a kinase anchor proteins as major substrates for tyrosine phosphorylation," <i>Dev. Biol.</i> , 180: 284-296 (1996).		
	AV	CHEN, Qian et al., "Organelle-specific targeting of protein kinase AII (PKAII), <i>J. Biolog. Chem.</i> , 272(24):15247-15257 (June 13, 1997).		
	AW	COGHLAN, Vincent M. et al., "Cloning and characterization of AKAP 95, a nuclear protein that associates with the regulatory subunit of Type II cAMP-dependent protein kinase," <i>J. Biol. Chem.</i> , 269(10):7658-7665 (1994).		
	AX	COSSON, Marie Paule., et al., "Protease inhibitors and substrates block motility and microtubule sliding of sea urchin and carp spermatozoa," <i>Cell. Motil. Cytoskeleton</i> 10(4):518-527 (1988).		
	AY	DE CAMILLI, P. et al., "Heterogeneous distribution of the cAMP receptor protein RII in the nervous system: Evidence for its intracellular accumulation on microtubules, microtubule-organizing centers, and in the area of the Golgi Complex," <i>J. Cell. Biol.</i> , 103:189-203 (Jul. 1986).		
	AZ	DEL'ACQUA et al., "Protein kinase A anchoring," <i>J. Biol. Chem.</i> , 272(20):12881-12884 (1997).		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
		Application Number	10/647,711		
		Filing Date	August 25, 2003		
		First Named Inventor	Said Goueli		
		Group Art Unit	1646		
		Examiner Name	Unknown		
Sheet	11	Attorney Docket Number	016026-9178 DIV		

DEC 22 2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	TRADEMARK OFFICE USE ONLY	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	BA	DEVADAS, Balekudru et al., "Substrate specificity of <i>Saccharomyces cerevisiae</i> myristoyl-CoA: Protein N-myristoyltransferase," <i>J. Biol. Chem.</i> , 267(11):7224-7239 (1992).
	BB	EICHHOLTZ, Thomas et al., "A myristoylated pseudosubstrate peptide, a novel protein kinase C inhibitor," <i>J. Biol. Chem.</i> , 268(3):1982-1986 (1993).
	BC	EICHLER, J. et al., "Peptide, peptidomimetic, and organic synthetic combinatorial libraries," <i>Med. Res. Rev.</i> , 15(6):481-496 (Nov. 1995).
	BD	EISENBERG, David et al., "The hydrophobic moment detects periodicity in protein hydrophobicity," <i>Proc. Natl. Acad. Sci. USA</i> , 81:140-144 (Jan. 1984).
	BE	FENICHEL, Patrick et al., "Stimulation of human sperm during capacitation in vitro by an adenosine agonist with specificity for A2 receptors," <i>Biol. Reproduc.</i> , 54(6): 1405-1411 (1996).
	BF	GARBERS & KOPF, "Regulation of spermatozoa," <i>Advances in Cyclic Nucleotide Research</i> , Greengard & Robinson, eds., 13:252-306, Raven Press, NY (1980).
	BG	GARBERS, David L. et al., "Regulation of spermatozoan cyclic nucleotide metabolism by egg factors," <i>Advances in Cyclic Nucleotide Res.</i> , 9:583-595 (1978).
	BH	GARBERS, David L. et al., "The stimulation of bovine epididymal sperm metabolism by cyclic nucleotide phosphodiesterase inhibitors," <i>Abstracts of Soc. of Biol. Reprod.</i> , 7:132 (1972).
	BI	GOODMAN, GILMAN, et al., eds., <u>The Pharmacological Basis of Therapeutics</u> , Macmillan, NY (1994).

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p> <p>O I P E</p>				<i>Complete if Known</i>	
				Application Number	10/647,711
				Filing Date	August 25, 2003
				First Named Inventor	Said Goueli
				Group Art Unit	1646
				Examiner Name	Unknown
Sheet DEC 22 2003	of C4	11	Attorney Docket Number	016026-9178 DIV	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
BJ		GOUELI , Basem S. et al., "A novel and simple method to assay the activity of individual protein kinases in a crude tissue extract," <i>Analytical Biochem.</i> , 225:10-17 (1995).
BK		HAN, Jing-Dong et al., "Molecular characterization of a novel A kinase anchor protein from <i>Drosophila melanogaster</i> ," <i>J. Biol. Chem.</i> , 272(42):26611-26619 (Oct. 17, 1997).
BL		HAUSKEN, Zachary E. et al., "Type II regulatory subunit (RII) of the cAMP-dependent protein kinase interaction with A-kinase anchor proteins requires isoleucines 3 and 5," <i>J. Biol. Chem.</i> , 269(3):24245-24251 (Sep. 30, 1994).
BM		HOROWITZ, Jill A. et al., "Interaction of the regulatory subunit of a Type II cAMP-dependent protein kinase with mammalian sperm flagellum," <i>J. Biol. Chem.</i> , 263(4):2098-2104 (Feb. 5, 1988).
BN		HOSKINS, D.D. et al., "Induction of motility in immature bovine spermatozoa by cyclic AMP phosphodiesterase inhibitors and seminal plasma," <i>Biology of Reprod.</i> , 13:168-176 (1975).
BO		HOSKINS, Dale D., "Adenine nucleotide mediation of fructolysis and motility in bovine epididymal spermatozoa," <i>J. Biol. Chem.</i> , 248(4):1135-1140 (Feb. 25, 1973).
BP		HOSKINS, D.D. et al., "Cyclic adenosine 3':5'-monophosphate and protein kinase levels in developing bovine spermatozoa," <i>J. Reprod. Fertil.</i> , 37:131-133 (1974).
BQ		HUANG, Lily Jun-shen et al., "Identification of a novel protein kinase A anchoring protein that binds both Type I and Type II regulatory subunits," <i>J. Biol. Chem.</i> , 272(12):8057-8064 (March 21, 1997).
BR		HUANG, Lily Jun-shen et al., "D-AKAP2, a novel protein kinase A anchoring protein with a putative RGS domain," <i>Proc. Nat'l. Acad. Sci. USA</i> , 94:11184-11189 (Oct. 1997).

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use as many sheets as necessary)</p> <p>O I P E DEE 22 2003 Sheet 5 of 11</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
			Attorney Docket Number	016026-9178 DIV

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.	
	BS	HUBBARD, Michael J. & COHEN, Philip, "On target with a new mechanism for the regulation of protein phosphorylation," <i>Trends Biochem. Sci.</i> , 18:172-177 (1993).	
	BT	JOHNSON, Barry D. et al., "Voltage-dependent potentiation of L-type Ca ²⁺ channels in skeletal muscle cells requires anchored cAMP-dependent protein kinase," <i>Proc. Nat'l Acad. Sci USA</i> , 91:11492-11496 (Nov. 1994).	
	BU	KLAUCK , Theresa M. et al., "Coordination of three signaling enzymes by AKAP79, a mammalian scaffold protein," <i>Science</i> , 271:1589-1592 (Mar. 15, 1996).	
	BV	KOPF, Gregory S. & GERTON, George L., <i>Elements of mammalian fertilization</i> , Wassermann, ed., V.1, Chap. 7, "The mammalian sperm acrosome and the acrosome reaction," 153-203, CRC Press, Boca Raton, FL (1991).	
	BW	LEE, Michael A. & STOREY, Bayard T., "Bicarbonate is essential for fertilization of mouse eggs: Mouse sperm require it to undergo the acrosome reaction," <i>Biol. of Reprod.</i> , 34:349-356 (1986).	
	BX	LEHNINGER, Albert L., <i>Principles. of Biochemistry.</i> , Worth Publishers, Inc., p. 101 of Chap. 5 "Amino Acids and Peptides"(1982).	
	BY	LEUSEN et al., "Inhibition of neutrophil nadph oxidase assembly by myristoylated inhibitor peptides...", Keystone Sympos. on Phosphorlation/Dephoshor. in signal transduct, Keystone CO USA, pp.17-24 (Jan. 1993)., <i>J. Cell Biochem. Supp. O</i> (17 part A).	
	BZ	LEWIN, <i>Genes V</i> , Oxford University Press, NY (1994) (definitions ref tool).	
	CA	LI, Ying & RUBIN, Charles S., "Mutagenesis of the regulatory subunit (RII β) of cAMP-dependent protein kinase II β reveals hydrophobic amino acids that are essential for RII β dimerization and/or anchoring RII β to the cytoskeleton," <i>J. Biol. Chem.</i> , 270(4):1935-1944 (Jan. 27, 1995).	

Examiner Signature	Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>(use as many sheets as necessary)</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
Sheet 6 of 11	Attorney Docket Number	016026-9178 DIV		

*DEC 22 2003
CPE JCS
PTENT & TRADEMARK OFFICE*

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.	
	CB	LIEBERMAN, S.J. et al., "Immunogold localization of the regulatory subunit of a Type II cAMP-dependent protein kinase tightly associated with mammalian sperm flagella," <i>J. Cell Biol.</i> 107:1809-1816 (Nov. 1988).	
	CC	LIN, Reigh-Yi et al., "Characterization of S-AKAP84, a novel developmental regulated A kinase anchor protein of male germ cells," <i>J. Biol. Chem.</i> , 270(46):27804-27811 (Nov. 17, 1995).	
	CD	LINDEMANN, C.B. & KANOUS, K.S., "Regulation of mammalian sperm motility," <i>Archives of Andrology.</i> , 23:1-22 (1989).	
	CE	LIOTTA, Anthony S. et al., "A synthetic tris-sulfotyrosyl dodecapeptide analogue of the insulin receptor 1146-kinase domain inhibits tyrosine dephosphorylation of the insulin receptor in situ," <i>J. Biol. Chem.</i> 269(37):22996-23001 (Sep. 16, 1994).	
	CF	LUO, Zhijun et al., "Identification of the MAP2- and P75-binding domain in the regulatory subunit (RII β) of Type II cAMP-dependent protein kinase," <i>J. Biol. Chem.</i> , 265(35):21804-21810 (Dec. 15, 1990).	
	CG	MERRIFIELD, R.B., "Solid phase peptide synthesis; I. The synthesis of a tetrapeptide," , <i>J. Chem. Co.</i> , 85:2149-2156 (Jul. 20, 1963).	
	CH	MC CARTNEY, Shirley et al., "Cloning and characterization of A-kinase anchor protein 100 (AKAP100)," <i>J. Biol. Chem.</i> 270(16):9327-9333 (Apr. 21, 1995).	
	CI	MOCHLY-ROSEN, Daria, "Localization of protein kinases by anchoring proteins: A theme in signal transduction," <i>Science</i> , 268:247-251 (Apr. 14, 1995).	
	CJ	MUNSON, et al., ed., <u>Principles of Pharmacology</u> , Chapman & Hall, NY (1995). (ref tool)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>(Use as many sheets as necessary)</p> <p style="text-align: right;">Sheet <u>1</u> of <u>11</u></p>				<i>Complete if Known</i>	
				Application Number	10/647,711
				Filing Date	August 25, 2003
				First Named Inventor	Said Goueli
				Group Art Unit	1646
				Examiner Name	Unknown
				Attorney Docket Number	016026-9178 DIV

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	TRADEMARK OFFICE USE ONLY	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
CK		NEWLON, Marceen G. et al., "The A-kinase anchoring domain of Type II cAMP-dependent protein kinase is highly helical," <i>J. Biol. Chem.</i> 272(38):23637-23644 (Sep. 19, 1997).
CL		NOLAND, Thomas D. et al., "Protein phosphorylation in intact bovine epididymal spermatozoa; Identification of the Type II regulatory subunit of cyclic adenosine 3',5'-monophosphate-dependent protein kinase as an endogenous phosphoprotein," <i>Biology of Reprod.</i> , 37:171-180 (1987).
CM		O'BRIAN, Catherine A. et al., "N-myristyl-Lys-Arg-Thr-Leu-Arg: A novel protein kinase C inhibitor," <i>Biochem. Pharmacol.</i> , 39(1):49-57 (1990).
CN		OKAMURA, Naomichi et al., "Sodium bicarbonate in seminal plasma stimulates the motility of mammalian spermatozoa through direct activation of adenylate cyclase," <i>J. Biol. Chem.</i> , 260(17):9699-9705 (Aug. 15, 1985).
CO		PARISET, Claude & WEINMAN, Serge, "Differential localization of two isoforms of the regulatory subunit RII β of cAMP-dependent protein kinase in human sperm: Biochemical and cytochemical study," <i>Molecular Reprod. & Dev.</i> , 39:415-422 (1994).
CP		PAUPARD, Marie-Christine et al., "Major 56,000-Dalton, soluble phosphoprotein present in bovine sperm is the regulatory subunit of a Type II cAMP-dependent protein kinase," <i>J. Cell Biochem.</i> , 37:161-175 (1988).
CQ		<i>REMINGTON'S PHARMACEUTICAL SCIENCES</i> , Mack Publ. Co., Easton, PA, latest edition.
CR		RIEGER et al., <u>Glossary of Genetics: Classical and Molecular</u> , 5 th ed., Springer-Verlag: NY (1991) (ref tool, definitions).
CS		ROSEN MUND, Christian et al., "Anchoring of protein kinase A is required for modulation of AMPA/kainate receptors on hippocampal neurons," <i>Nature</i> , 368:853-856 (Apr. 28, 1994).

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>O I P (use as many sheets as necessary)</p>				<i>Complete if Known</i>	
				Application Number	10/647,711
				Filing Date	August 25, 2003
				First Named Inventor	Said Goueli
				Group Art Unit	1646
				Examiner Name	Unknown
Sheet	58	of	11	Attorney Docket Number	016026-9178 DIV

DEC 22 2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	TRADEMARK OFFICE	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.			
	CT	RUBIN, Charles S., "A kinase anchor proteins and the intracellular targeting of signals carried by cyclic AMP," <i>Biochimica et Biophysica Acta</i> , 1224:467-479 (1994).			
	CU	SAM BROOK et al., ed., <i>Molecular Cloning: A Laboratory Manual</i> , 2d ed., v. 1-3, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1989). (ref tool).			
	CV	SAN AGUSTIN, Jovenal T. & WITMAN, George B., "Role of cAMP in the reactivation of demembranated ram spermatozoa," <i>Cell Motility & the Cytoskeleton</i> , 27:206-218 (1994).			
	CW	SATIR, Peter, "Switching mechanisms in the control of ciliary motility," <i>Modern Cell. Biol.</i> , 4:1-46 (1985).			
	CX	SCOTT, John D. et al., "Type II regulatory subunit dimerization determines the ubcellular localization of the cAMP dependent protein kinase," <i>J. Biol. Chem.</i> , 265(35):21561-21566 (Dec. 15, 1990).			
	CY	SCOTT, John D. & CARR, Daniel W., "Subcellular localization of the Type II cAMP-dependent protein kinase," <i>News in Physiol. Sci.</i> , 7:143-148 (Aug. 1992).			
	CZ	SHAW, Chris, "Peptide purification by reverse-phase HPLC," <i>Methods in Molecular Biology</i> , 32:275-287 (1994).			
	DA	SI, Y., et al., "Hyperactivated motility of mammalian sperm," <i>Mol. Androl.</i> , 8(3,4):235-259 (1996).			
	DB	SMITH, Gary D. et al., "Primate sperm contain protein phosphatase 1, a biochemical mediator of motility," <i>Biol. Reprod.</i> , 54:719-727 (1996).			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>(use as many sheets as necessary)</p> <p><i>CIPR</i> <i>KE</i> <i>JC33</i></p> <p>Sheet 9 of 11</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
			Attorney Docket Number	016026-9178 DIV

DEC 22 2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

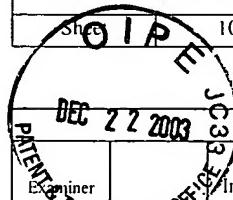
PATENT & TRADEMARK OFFICE Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	DC	STEPHENS, Donald T. et al., "Description, validation, and performance characteristics of a new computer-automated sperm motility analysis system," <i>Biology of Reprod.</i> , 38:577-586 (1988).
	DD	SCHRAMM, Hans J. et al., "The inhibition of human immunodeficiency virus proteases by interface peptides," <i>Antiviral Research</i> , 30:155-170 (1996).
	DE	TASH, Joseph S. et al., "Flagellar motility requires the cAMP-dependent phosphorylation of a heat-stable NP-40-soluble 56 kd protein, Axokinin," <i>Cell</i> , 38:551-559 (1984).
	DF	TASH, Joseph S. & BRACHO, Geracimo E., "Regulation of sperm motility: Emerging evidence for a major role for protein phosphatases," <i>J. Andrology</i> , 15(6):505-509 (Nov./Dec. 1994).
	DG	TASH, Joseph S. & MEANS, Anthony R., "cAMP-dependent regulatory processes in the acquisition and control of sperm flagellar movement," <i>Prog. Clin. Biol. Res.</i> , 267:335-355 (1988).
	DH	TASH, Joseph S., "Protein phosphorylation: The second messenger signal transducer of flagellar motility," <i>Cell Motility and the Cytoskel.</i> , 14(3):332-339 (1989).
	DI	TASH, JS, et al., "Axokinin phosphorylation by cAMP-dependent protein kinase is sufficient for activation of sperm flagellar motility," <i>J. Cell Biol.</i> , 103(2):649-655 (Aug. 1986).
	DJ	TOWLER, Dwight et al., "Protein fatty acid acylation: Enzymatic synthesis of an N-myristoylglycyl peptide," <i>Proc. Natl. Acad. Sci.</i> , 83:2812-2816 (May 1986).
	DK	VIJAYARAGHAVAN, Srinivasan et al., "Sperm motility development in the epididymis is associated with decreased glycogen synthase kinase-3 and protein phosphatase 1 activity," <i>Biology of Reprod.</i> , 54:709-718 (1996).

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p>Substitute for form 1449B/PTO</p> <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>(use as many sheets as necessary)</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
10	of	11	Attorney Docket Number	016026-9178 DIV

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials TRADEMARK OFFICE	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.	
DL	VIJAYARAGHAVAN, Srinivasan et al., "Evidence against a functional ATP-dependent calcium extrusion mechanism in bovine epididymal sperm," <i>Molecular. Reprod. & Dev.</i> , 38:326-333 (1994).	
DM	VIJAYARAGHAVAN, S. & HOSKINS, D.D., "Changes in the mitochondrial calcium influx and efflux properties are responsible for the decline in sperm calcium during epididymal maturation," <i>Molecular. Reprod. & Dev.</i> , 25:186-194 (1990).	
DN	VIJAYARAGHAVAN, Srinivasan et al., "Calcium uptake by bovine epididymal spermatozoa is regulated by the redox state of the mitochondrial pyridine nucleotides," <i>Biology of Reprod.</i> , 40:744-751 (1989).	
DO	VIJAYARAGHAVAN, S. & HOSKINS, D., "Quantitation of bovine sperm cytoplasmic calcium with Quin-2 and Fura-2: Evidence that external calcium does not have direct access to the sperm cytoplasm," <i>Cell Calcium</i> , 10:241-253 (1989).	
DP	VIJAYARAGHAVAN, S. et al., "Evidence for a role for cellular alkalinization in the cyclic adenosine 3',5'-monophosphate-mediated initiation of motility in bovine caput spermatozoa," <i>Bioogy of. Reprod.</i> , 32:489-500 (1985).	
DQ	VIJAYARAGHAVAN, Srinivasan & HOSKINS, Dale D., "Forskolin stimulates bovine epididymal sperm motility and cyclic AMP levels," <i>J. Cyclic Nucleotide Protein Phosphoryla. Res.</i> , 10(5):499-510 (1985).	
DR	VIJAYARAGHAVAN, Srinivasan & HOSKINS, Dale D., "Regulation of bovine sperm motility and cyclic adenosine 3',5'-monophosphate by adenosine and its analogues," <i>Biology of Reprod.</i> , 34:468-477 (1986).	
DS	WILLIAMS, R.E. et al., "Minimum structural requirements of myristoylated protein kinase C(PKC) inhibitory peptides: Minimizing the structure of a MARCKS protein derived peptide," <i>Peptides, Proc. Eur. Pept. Symp.</i> , Leiden, Netherlands, p. 662-663	
	ZALIANI, Andrea et al., "Rational design of a new C-myristylamido peptide exerting potent and selective PKC inhibitory activity," <i>Drug Design and Discovery</i> , 23:63-74 (1996).	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

<p>Substitute for form 1449B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>			<i>Complete if Known</i>	
			Application Number	10/647,711
			Filing Date	August 25, 2003
			First Named Inventor	Said Goueli
			Group Art Unit	1646
			Examiner Name	Unknown
11	of	11	Attorney Docket Number	016026-9178 DIV

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

PATENT EXAMINER Initials	TRADEMARK OFFICE	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	DT	ZALIANI, Andrea et al., "Rational design of a new C-myristylamido peptide exerting potent and selective PKC inhibitory activity," Drug Design and Discovery, 13: 63-74 (1996).

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.